Claims

1. Real-time test system comprising at least one reservoir with monoclonal anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, which reservoir is capable to receive a sample; a wash solution; labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, wherein the label allows photometrical detection; and at least one photomultiplier detector.
2. Test system according to claim 1, wherein the labelled monoclonal anti-insulin or anti-C peptide is present in dried form in the said reservoir.
3. Test system according to claim 1, wherein the said labelled monoclonal anti-insulin or anti-C peptide antibodies are labelled by a chemiluminescent label.
4. The system of claim 1, wherein the reservoir is a microtiter well.
5. A method for determining insulin levels in a sample, comprising adding the sample to a reservoir with monoclonal anti-insulin or anti-C peptide capture antibodies solidified in said reservoir, and labelled monoclonal anti-insulin or anti-C peptide antibodies useful as a tracer, followed by incubation giving labelled insulin complexes; washing; and detecting the labelled insulin complexes photometrically.
6. The method of claim 5, wherein the sample is perfusion solution obtained from a pancreas removed from the body after stimulating said pancreas with an insulin-production influencing compound, preferably glucose.
7. The method of claim 5, wherein the sample is supernatant of *in vitro* cultured beta cells.
8. The method of claim 5, wherein the sample is a blood sample.
9. A method for determining insulin levels, comprising sampling blood in the *Vena splenica* and/or *Vena porta*, comprising the steps of introducing a probe in one of said veins, sampling at one or more spots in the said vein, and analysing the samples using the method of claim 5.

10. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 1.

11. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 2.

12. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 3

13. System for carrying out the method of claim 9 comprising a probe arranged to be introduced in the *Vena splenica* and/or *Vena porta* and the test system of claim 4.